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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/715,570	KIDOH, HIDEO	
	<b>Examiner</b>	<b>Art Unit</b>	
	Barbara Summons	2817	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-9.
3. ☒ The drawings filed on 19 November 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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| <ol style="list-style-type: none"><li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li><li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li><li>3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date <u>11/19/03 &amp; 5/6/04 + 6/7/04</u></li><li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li></ol> | <ol style="list-style-type: none"><li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li><li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date ____.</li><li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li><li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li><li>9. <input checked="" type="checkbox"/> Other <u>Title change</u>.</li></ol> |
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## **REASONS FOR ALLOWANCE/TITLE CHANGE**

### ***Reasons for Allowance***

1. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose or fairly suggest a surface acoustic wave filter having each of the specifically recited features and especially wherein "the bandwidth of the second acoustic channel is narrower than that of the first acoustic channel, and a first side lobe of the second transfer function of the second acoustic channel has a phase opposite to that of a main lobe of the first transfer function of the first acoustic channel" (see the last paragraph of claim 1). The closest prior art references are discussed below.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Title Change***

2. It should be noted that the Title of the Invention has been changed to:  
- - Surface Acoustic Wave Filter Utilizing Two Parallel Acoustic Channels With One Having A Narrower Bandwidth - -.

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Ichikawa U.S. 6,462,633 discloses (Figs. 1 and 7) a main filter  $F_m$  acoustic channel and a second filter  $F_s$  acoustic channel with the input/output transducers connected in parallel such that the transfer functions (Fig. 2) have the same phase within the pass band  $W_1$  of  $F_m$  (i.e. blocking band  $W_2$  of  $F_s$ )[see col. 7, lines 30-36] and have opposite phases outside the pass band especially at side lobe  $L_2$  of the second filter  $F_s$  at area  $W_4$  (see e.g. col. 4, lines 26-30). However, the bandwidths  $W_1$  and  $W_2$  of the two filters are the same (see col. 4, lines 17-18).

Baier DE 197 26 594 discloses a surface acoustic wave filter having two tracks connected in parallel, and wherein one filter has a narrow band and one has a wide band characteristic (see the abstract, lines 3-7).

Tsuzuki et al. U.S. 6,476,691 is an equivalent of JP 2001-53581 and EP 1 104 100 that were both cited by Applicant.

Dufilie et al. U.S. 6,313,717 is an equivalent of JP 2000-77974 that was cited by Applicant.

Nakamura et al. U.S. 6,650,206 is an equivalent of EP 1 189 346 that was cited by Applicant.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barbara Summons whose telephone number is (571) 272-1771. The examiner can normally be reached on M-Th, M-Fr.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bob Pascal can be reached on (571) 271-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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February 14, 2005



**BARBARA SUMMONS  
PRIMARY EXAMINER**